

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/10448A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L1/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 31808 A (SICOM INC ;COCHRAN BRUCE A (US); LIEBETREU JOHN M (US); MCCALLISTE) 24 June 1999 (1999-06-24) page 12, line 26 -page 13, line 7 ---	1-5,7, 9-12, 14-16, 19,24,26
A	US 4 908 827 A (GATES JOHN) 13 March 1990 (1990-03-13) column 7, line 51 -column 8, line 7 figure 2B --- -/--	1-5,7, 9-12, 14-16, 19,24,26

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

18 December 2002

Date of mailing of the international search report

30/12/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Ghigliotti, L

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP 02/10448

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 462 101 A (OGAWA AKIRA ET AL) 24 July 1984 (1984-07-24) figure 3 column 5, line 34 - line 68 -----	1-5,7, 9-12, 14-16, 19,24,26
A	US 5 566 189 A (LASKOWSKI PAUL J) 15 October 1996 (1996-10-15) abstract; figure 2 -----	1-5,7, 9-12, 14-16, 19,24,26
A	US 6 014 411 A (WANG CHARLES C) 11 January 2000 (2000-01-11) column 16, line 59 -column 17, line 4 -----	1-26

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 02/10448

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9931808	A	24-06-1999	US 6005897 A	21-12-1999
			AU 1921599 A	05-07-1999
			AU 2200099 A	05-07-1999
			US 6097764 A	01-08-2000
			WO 9931808 A1	24-06-1999
			WO 9931809 A1	24-06-1999
US 4908827	A	13-03-1990	NONE	
US 4462101	A	24-07-1984	JP 1460272 C	28-09-1988
			JP 57155857 A	27-09-1982
			JP 63007690 B	18-02-1988
			FR 2502429 A1	24-09-1982
			GB 2095517 A , B	29-09-1982
US 5566189	A	15-10-1996	US 5790566 A	04-08-1998
US 6014411	A	11-01-2000	NONE	